

DECLARATION OF INVENTORS UNDER 37 C.F.R. §1.131		Application Number	09/630,340
Address to:	Commissioner for Patents	Confirmation Number	5593
P.O. Box 1450	Alexandria VA 22313-1450	Filing Date	July 31, 2000
		First Named Inventor	Pan
		Examiner	Cross, Latoya
		Group Art	1743
		Attorney Docket No.	LIFE-009

Sir:

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further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

6.

Respectfully submitted,

Date: \_\_\_\_\_

Date: 9/30/04

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Date: 9/30/04

Victor Pan



John Lemke

Harshad Patel

Philip Cizdziel



Robert Shartle

Attachment: Exhibit

# INVENTION DISCLOSURE

## 3. Detailed Description of Invention

### Purposes:

In an assay system that requires an external mechanism to draw the sample into the test strip, a method to accurately detect the presence of fluid sample at the sample application area is a crucial step in the test procedure. Once the sensor accurately detects the presence of fluid sample, this event allows the assay system to actuate the mechanism to draw the sample into the reaction zone.

The sample detection method must also guard against false detection, such as finger or other application device near the application area that can lead to premature actuation of the mechanism resulting in unreliable test result.

Description:

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From the percentage change in amplitude of the reflectance signal, the assay system can determine whether or not sufficient amount of sample is applied to the test strip. When the enough sample condition is met, the assay system triggers the actuator, and draws the sample into the reaction area.

The light source and detector can be chosen with spectral characteristics best suited to detect the sample and test strip.



**4. Date of First Conception of Invention:**

**5. Date of First Record of Invention:**

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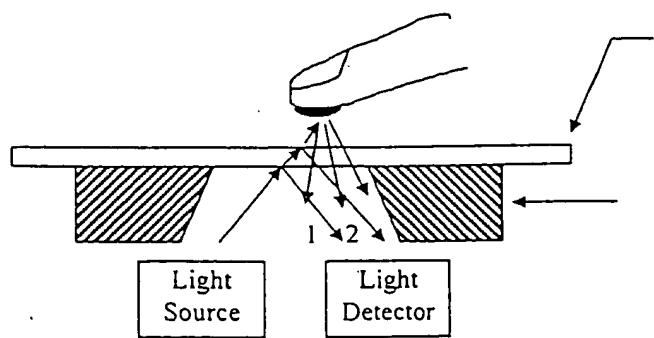
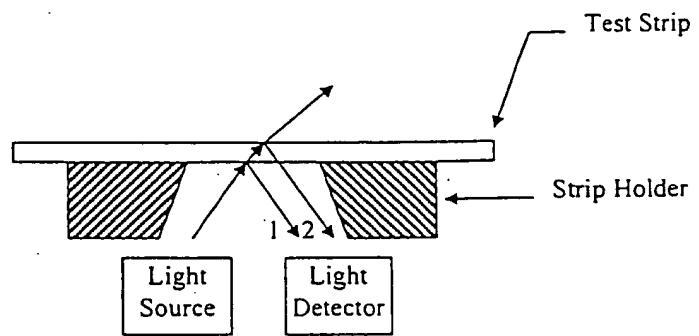
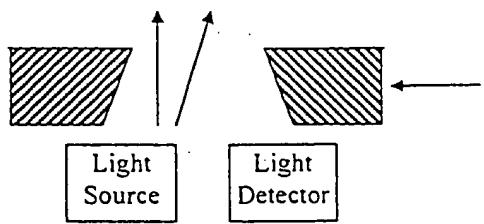
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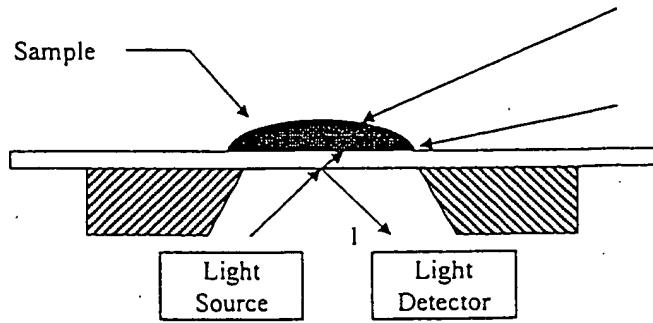
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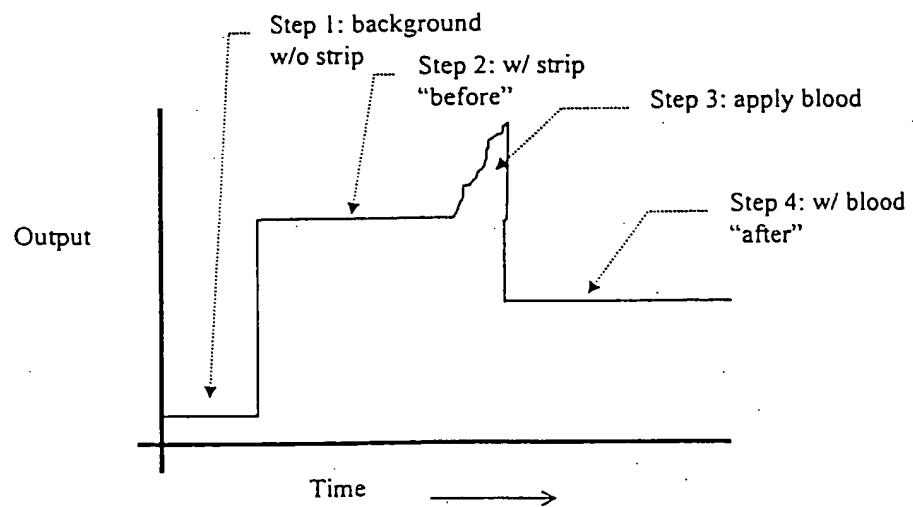
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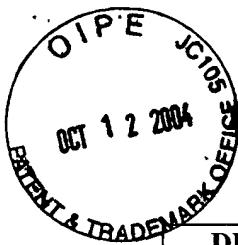


Step 4: Read signal after blood is applied



Typical Output Signal





Atty Dkt. No.: LIFE-009  
USSN: 09/630,340

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	09/630,340 5593 July 31, 2000 Pan Cross, Latoya 1743 LIFE-009

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Date: \_\_\_\_\_

\_\_\_\_\_  
Victor Pan

Date: \_\_\_\_\_

\_\_\_\_\_  
John Lemke

Date: \_\_\_\_\_

\_\_\_\_\_  
Harshad Patel

Date: 10-04-04

Philip Cizdziel  
Philip Cizdziel

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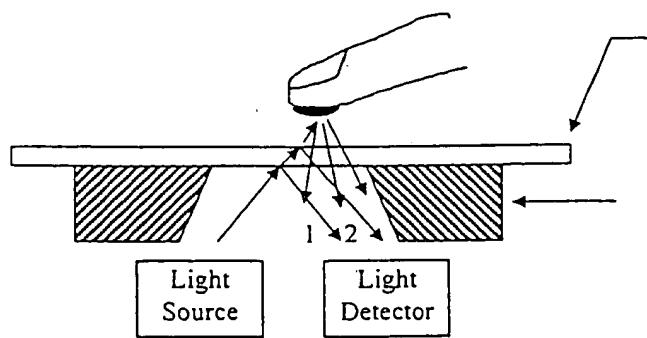
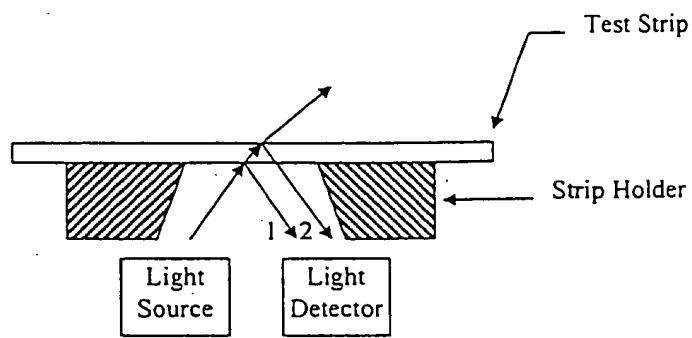
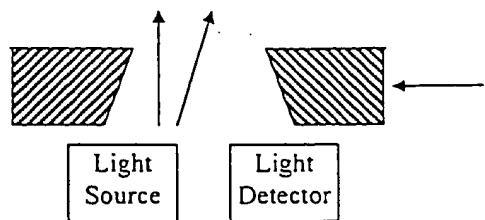
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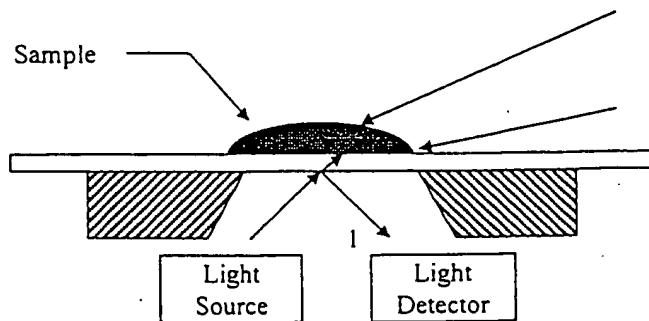
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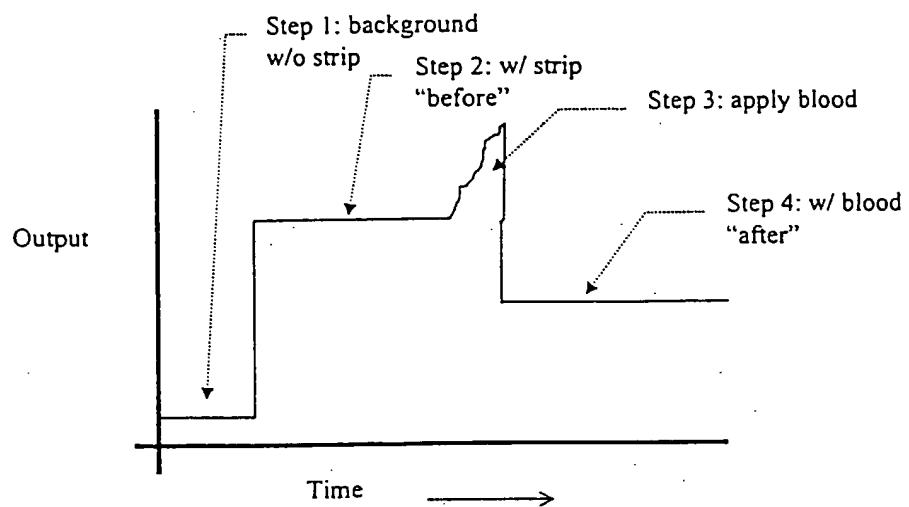
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Step 4: Read signal after blood is applied



Typical Output Signal





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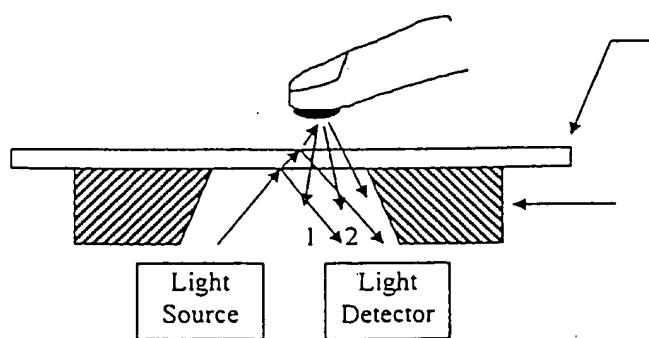
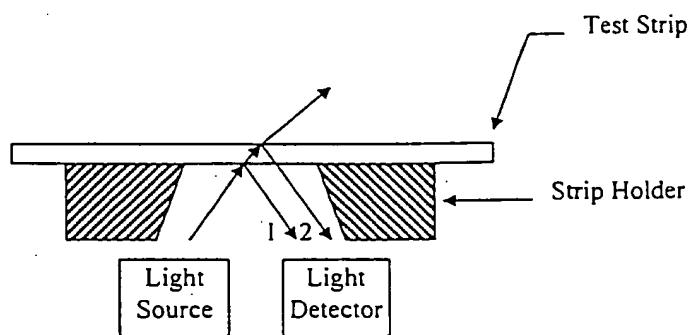
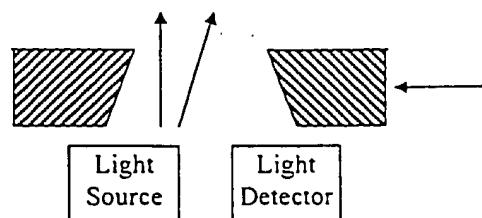
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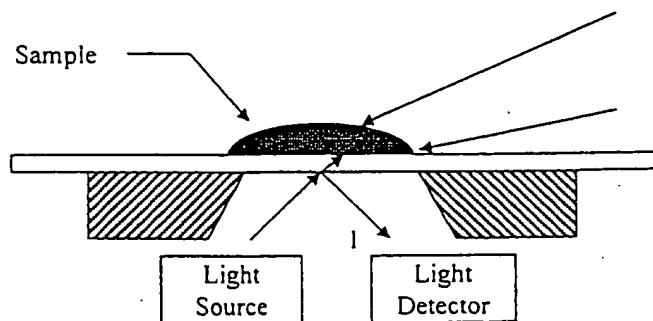
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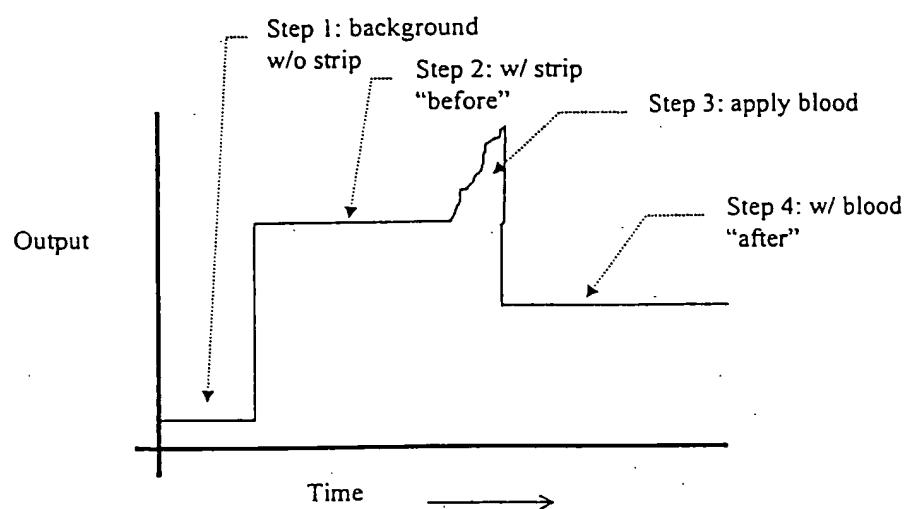
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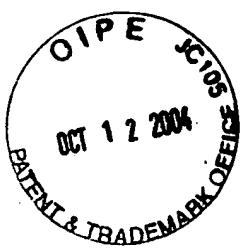


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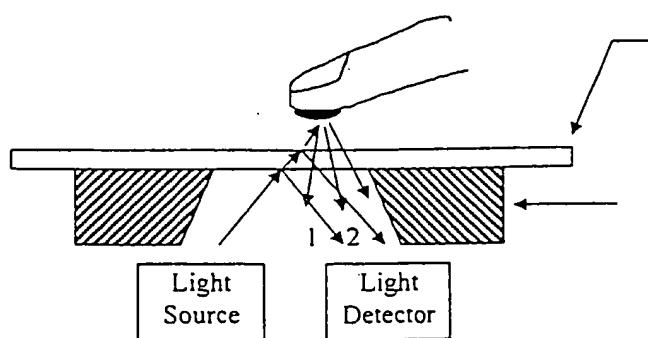
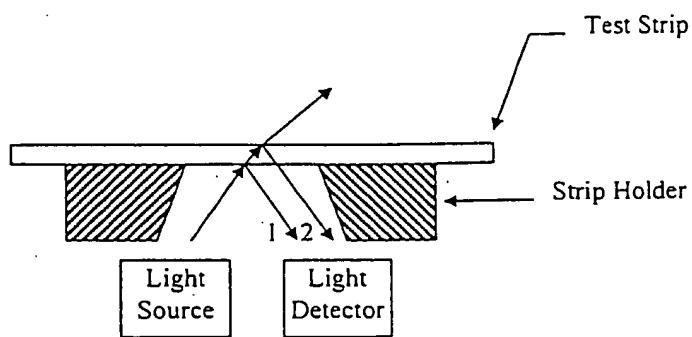
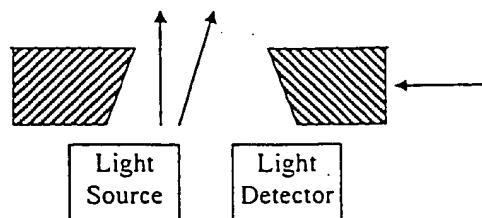
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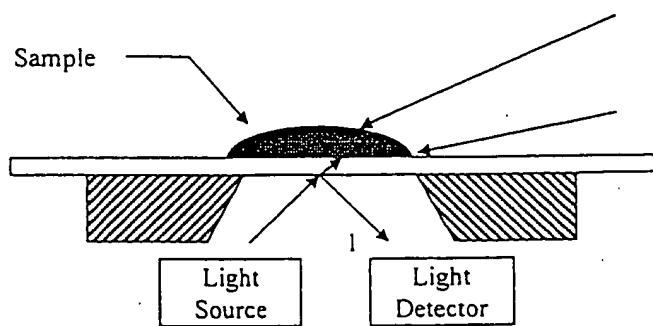
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